

## A SCRUBBER HOUSING

Each housing is custom designed and fabricated in accordance to the requirements of the project. Space is carefully managed with consideration given to the footprint and maintenance space available.

Housing material is carefully selected for both mechanical strength and corrosion compatibility with process media. Mechanical calculations are performed in accordance to the relevant ASTM or DIN standard. Material of construction can be selected from:-

- Vinyl ester based Fibre Reinforced Plastic (FRP)
- Fire retardant Fibre Reinforced Plastic (FRP/FR)
- Polypropylene (PP)
- FRP with polypropylene (PP/FR)
- FRP with polyvinyl interior liner (FRP/PVDF)
- FRP with ethyl interior liner (FRP/ECTFE)

## B MIST ELIMINATOR

As a standard feature, the mist eliminator comprises of blade profiles strongly encased in a polypropylene frame. The profiles are constructed of talcum reinforced polypropylene (PPTV) for the added rigidity and at the same time providing the premium corrosion resistant.

## C LIQUID DISTRIBUTION

The liquid distribution consists of an engineered network of spray header and spray nozzles. The nozzles which are non-clogged are carefully selected to deliver the required liquid flow at desired droplet size. Each nozzle is positioned to make sure that the liquid is distributed over surface of irrigated packed bed and there is no dry spot.

One special feature of the scrubber is the spray nozzles can be removed from the top of scrubber without the need to unfasten many bolts & nuts.

## D PACKING "2K"

The scrubber uses 2" packing which provides:

- Smaller Footprint
- Lower Pressure Drop
- Smaller Recirculation Pumps
- Increased Capacity
- Smaller Mist Eliminators
- Reduced Maintenance Costs
- Reduced Power Consumption

## E INTERGAL SUMP

The scrubber is designed with a scrubbant liquid sump that is intergrated with the scrubber body for compactness. The sump provides a reservoir for the recirculation liquid and is calculated with adequate retention capacity

## F RECIRCULATION PUMPS

The scrubber system uses vertical, immersion recirculation pumps which are mounted on extension of intergral sump. This form of construction offers space savings and smaller footprint.

## G LEAK CONTAINMENT (OPTIONAL)

For containment of potential spills due to leaks especially when scrubber is located at critical areas without drainage such as roof tops.

## H MAINTENANCE ACCESS

For ease of maintenance, the scrubber is provided with access manways at the following locations:

## I EXHAUST FAN

The scrubber is coupled to a high efficient centrifugal type exhaust fan to "pull" the gas through the system. The exhaust fan is available in PP, PPS, FRP/PP, FRP and coated steel material.

